

**From:** [McCarter, Jennifer](#)  
**To:** [Jacobson, Linda](#)  
**Cc:** [Kilty, Quinn V](#); [Bodry, Renee A](#)  
**Subject:** Comanche new nature and extent wells and sampling event  
**Date:** Tuesday, March 22, 2022 10:25:56 AM  
**Attachments:** [image008.png](#)  
[image009.png](#)  
[image010.png](#)

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Hi Linda, following is an update on the new monitoring wells drilled at Comanche and our planned sampling event starting next week. Please let me know if you have any questions.

Three wells were installed the week of 2/28 – 3/4 and development, slug testing and survey were completed the week of March 7<sup>th</sup>. Sampling of the new wells (W-14, 15, 16) is scheduled for the event beginning next week.

- Location A, W-16 – eastern of two off-site wells; boring was advanced to total depth of 60 ft bgs to confirm top of consolidated unfractured shale; screen set at 36-46 ft bgs in saturated weathered shale; alluvium and colluvium were dry at this location.
- Location B, W-14 – on-site well; the alluvium and colluvium were dry at this location and the well was completed in weathered shale, water present; screen set at 38-43 ft bgs, total depth of boring is 49 ft bgs.
- Location C, W-15 – western of two off-site wells; dry alluvium was encountered; drilled into weathered shale; boring was dry and remained dry with a temporary well, but we still completed as a well to monitoring whether it remains dry; we expect that this well will remain dry, similar to W-8 and W-13; screen set at 26-31 ft bgs in weathered shale, total depth is 35 ft bgs.

Details of next week's sampling event follow the figures.





Figure 2. Comanche Station – CCR Units and Monitoring Well Location Map

**Sampling of all wells will be conducted 3/28 – 4/8, as follows:**

**Comanche Landfill Well Network (9 wells) Detection Monitoring (App. III + TSS)**

MW-1, MW-1B, MW-2, MW-2B, MW-3, MW-4, MW-4B, MW-5, MW-6

- MW-7 (MW-7 is in background sampling, and will be analyzed for the full background sampling constituent list)

Table 1. Groundwater quality parameters	
Appendix III Constituents	
Boron	
Calcium	
Chloride	
Fluoride	
pH	
Sulfate	
Total Dissolved Solids (TDS)	
Additional Parameters	
Total Suspended Solids (TSS)	

#### Round 4 Comanche Background Sampling (21 wells) (App. III & IV + TSS)

- W-2 (typically dry), W-2A, W-2C (pond background wells)
- W-1, W-3, W-4, W-5, W-6 (pond original waste boundary wells)
- W-3B, W-5B, W-6B (pond new waste boundary wells)
- W-7, W-8A (typically dry), W-9, W-11, W-12, W-13 (typically dry) (nature and extent wells)
- W-14, W-15 (dry at installation), W-16 (new nature and extent wells)
- MW-7 (landfill new downgradient waste boundary well)

Table 1. Groundwater quality parameters	
Appendix III Constituents	Appendix IV Constituents
Boron	Antimony
Calcium	Arsenic
Chloride	Barium
Fluoride	Beryllium
pH	Cadmium
Sulfate	Chromium
Total Dissolved Solids (TDS)	Cobalt
Additional Parameters	Fluoride
Total Suspended Solids (TSS)	Lead
	Lithium
	Mercury
	Molybdenum
	Selenium
	Thallium
	Radium 226 and 228 combined

**Jennifer McCarter, R.E.M.**

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